White Paper Topic

Agile Modular Secure Facility (SCIF) Fabrication

Innovative or Unique Contract Acquisition or Construction Methods



Example of a Pre-Fabricated Modular Panelized Sensitive Compartmented Information Facility (SCIF) Constructed Inside an Existing Hangar Facility



- * Manufacturing Acoustic Mitigation Products Since 1949
- * Designing Modular SCIF/SAPF Structures Since 1980

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BLUF

- Air Force is Adapting to Meet Great Power Competition
 - ✓ Mission Demands Creating Urgent Need for Additional SCI and SAP Access
- Flexible Modular Approach to Building Secure Facilities
 - ✓ Modular Panel Architecture Can be Assembled/ Moved /Re-Assembled
 - **✓** Expandable and Reconfigurable to Meet Evolving User Needs
 - √ Flat Panels Easily Transported (OCONUS Ops)
- Pre-Fabricated in Factory Controlled Environment
 - **✓** Factory Tested not subject to Traditional Onsite Construction Variables
 - **✓** Acoustic Material and RF Shielding Applied in Proven Repeatable Processes
 - ✓ Guaranteed 1st Time ICD 705 Accreditation
- Acquisition Strategy Options
 - ✓ Dismountable and Subject to O&M Equipment (3400) Funding
 - ✓ GSA Schedule 70 Blanket Purchase Agreement; FEDSIM OASIS IDIQ
 - ✓ Leasing
- Standardized Modular SCIF Layout and Design vs Unique Design Build
 - ✓ Commonality Replicated Across Several Basing Locations

Example Modular SCIF Concept

AF Installation of the Future

Common Relocatable SCIF

OTA Rapid Prototype

- Standard F-35 Maintenance SAPF
- Agile Combat Employment
- Deployable to OCONUS
- Common Layout and Comms
 Reduced Training
 Volume Purchase Savings
- 804 Authority for Rapid Fielding



What is a SCIF/SAPF?

- Facility to Store and Process Sensitive Compartmented Information (SCI) and Special Access Program (SAP) Information. SCI/SAP can be at any Security Level
- All SCI must be handled within formal access control systems established by the DNI. DNI has published Intelligence Community Directive (ICD) 705 directing the construction guidelines for SCIFs
- Acoustic, RF and TEMPEST mitigation must be installed and tested in accordance with ICD 705 to prevent foreign surveillance.
 SCIFs must pass a formal accreditation process prior to occupancy

Air Force SCI/SAP Mission Demand

- > 5th Generation Aircraft Operations and Maintenance
- > AF Cyber Operations
- **→** Air Force AOC Weapon Systems
- Intelligence Support for Multi-Domain Operations (SPACE Command)

Tyndall SCIF Needs

- > 53rd WEG Combat Archer 5th Gen Aircraft Participants
- > F-35 Beddown Ops and Maintenance SCIF/SAPF
- > 601st/AFNORTH Air Operations Center
- **➤ MQ-9 Reaper Intelligence Support**



Panelized SCIF to Support POTUS OCONUS Travel



True Cost of Secure Facility Construction

Traditional Design-Build SCIF Construction Defined by Lowest Bid (Labor and Materials)

......End User Costs can be Much Higher Defined by <u>Time to Accreditation</u> (Idle Cleared Personnel, Operational Readiness and Mission Success)

Modular SCIF Panel Build

- Relocatable Structure
 - > O&M Funding Rapid Fielding
- Factory Built and Inspected
 - Guaranteed Accreditation
 - > Rapid Assembly of Pre-Fab Components
 - > Proven Standard Designs
- Expandable Structure
- Temporary SCIF
- <u>Fastest time to Accreditation</u>
 - ► GOAL: Fully Accredited Modular SCIF/SAPF
 Delivered and Assembled in 8 Weeks After Award

Traditional SCIF Design Build

- Permanent Structure
 - > MILCON Funded Protracted Acquisition
- On-Site Construction
 - ➤ Installation Flaws Can Delay Accreditation
 - > Fabrication on site; Dependent Upon Skilled Installers and External Variables (Weather)
 - > New Design Build
 - Demolition and Expensive Renovation
- No
- <u>?</u>



Why Panelized?

All the Advantages of Other Modular Fabrication (e.g. Containers) and.....

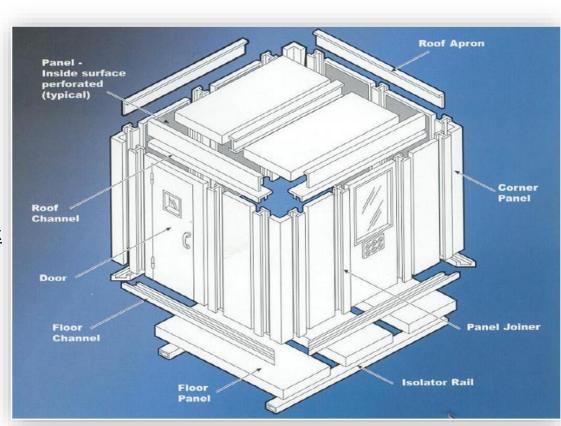
- Can be Assembled in Multiple Locations
 - > Freestanding
 - **➤ Inside Limited Access Space (Hangars)**
 - > Secure Space Inside Existing Facility (Remodel)
- Unassembled Panels Stack Flat Easily Transported
 - **>** Austere Locations
 - ➤ International Customs and Logistics
- Interchangeable Panels Can be Reconfigured
 - > Rooms Can be Rearranged for Security Levels
 - > Facility Can be Dismounted and Reassembled
- Design Elements for Customized Interior



iac acoust

Pre-Fabricated Acoustic/RF modular building components

- Highly Automated Agile Manufacturing Process Focus
 - **✓** Factory Quality Controlled Environment
 - **✓ Inventory Management for Streamlined Deliveries**
 - **✓** Fast Changeovers for Customized Panels
 - **✓** Standard Panels and Doors exceed ICD 705 STC Specifications
- Interlocking Steel Welded Structural Panels and Joiners
 - √ ¼ Inch Steel Bullet/Blast/Wind Resistant Panels 4 Inches Thick
 - **✓** Panel System Structural Integrity Supports Multi-Story Installs
 - ✓ Easily Transported and Assembled Remodels or Standalone
- Executive Appointments
 - ✓ Custom Details for Executive SCIFs
 - ✓ Acoustic Windows, Fabric Paneling, Chair Rails, Wood Veneer and Laminate Flooring





Agile Manufacturing of Engineered Pre-Fabricated Designs



Manufacturing Door line - hung and adjusted before shipment

The Agile Process

- Automated Manufacturing with Statistical Process Control
- Acoustic and RF Design Margins Exceeding ICD 705 Specifications
- Small Batch Process Flow and Changeovers for Customized Orders
- Inventory Management and Expedited Materials Handling
- Trained and Highly Skilled Workforce
- Library of SCIF Compliant Modular Door and Panel Designs



Agile Manufacturing Process Capabilities

Highly Automated Factories

- ✓ Controlled Environment
- ✓ Quality Control Inspection and Test
- ✓ Fast Changeovers Custom Designs
- ✓ Scalable Workforce to Meet Demand

Automated Process Control

- ➤ In-House Powder Coating Line
- ➤ Multiple Head Spot Welders
- ➤ Amada Punch Presses
- ➤ Press Brakes
- > Shears











Summary

• Standard Pre-Fab Modular SCIF Designs

- > SCIF Design and Layout Replicated for Commonality Across Multiple Locations
- Volume Cost Savings

• Turn-Key SCIF/SAPF Systems

- > Strategic Industry Partnerships with Integrators and Facility Management Companies
- **→** Cleared Installers, Logistics, Comms/IT, HVAC

• First-Time Accreditation

- > Standard Product Design Margins Exceed ICD 705 Requirements
- > Rapid Build and Operational Deployment with Subsequent Move Recertification

• Adaptive Basing - Agile Combat Employment

- ➤ Large Fixed Installations/Facilities are Vulnerable Fighting Near Peer Adversaries
- ➤ Modular Panelized SCIF/SAPF Allows for Rapid Mobility (Install/Teardown)
- Eliminates the Need for T-SCIF

Flexible Acquisition – Rapid Fielding

- ➤ Modular SCIFs/SAPFs Can be Dismounted and Qualify for O&M Procurement
- ➤ Rapid Prototyping with OTAs
- **➤ GSA Blanket Purchase Agreements**



Panel Built SCIFs can be Transported as Complete Units

